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-	8	((("5537458") or ("5619508") or ("5778024") or ("5809415") or ("5559870") or ("5436960") or ("6014089") or ("5434911")) .PN.	USPAT; US-PGPUB	2002/12/13 20:02
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-	76	((modem and GSM) and simulation) and packet	USPAT; US-PGPUB	2002/12/13 20:25
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-	4	(gms adj type) and modem	USPAT; US-PGPUB	2002/12/13 20:33
-	1304	gsm adj network	USPAT; US-PGPUB	2002/12/13 20:51
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-	201	703/13.ccor.	USPAT; US-PGPUB	2002/12/16 11:24
-	70	703/17.ccor.	USPAT; US-PGPUB	2002/12/16 11:25
-	48	703/20.ccor.	USPAT; US-PGPUB	2002/12/16 11:25
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3 Performance evaluation of packet data services over cellular voice networks Young Yong Kim , San-qi Li Wireless Networks May 1999 Volume 5 Issue 3 <p>In this paper we develop a Markov chain modeling framework for throughput/delay analysis of data services over cellular voice networks, using the dynamic channel stealing method. Effective approximation techniques are also proposed and verified for simplification of modeling analysis. Our study identifies the average voice call holding time as the dominant factor to affect data delay performance. Especially in heavy load conditions, namely when the number of free voice channels becomes mome ...</p>	84%
4 Traffic model for third generation cellular mobile telecommunication systems J. G. Markoulidakis , G. L. Lyberopoulos , M. E. Anagnostou Wireless Networks August 1998 Volume 4 Issue 5 <p>Traffic analysis for third generation mobile telecommunication systems should take into account a variety of services (e.g., voice, data, video) and "environments" (private, public outdoor, public indoor) as well as the user mobility behavior. The analytical traffic model presented in this paper incorporates all the above mentioned features. The model utilizes a set of simplifying assumptions regarding the distribution of certain random time intervals (e.g., call duration and &lt; ...</p>	82%
5 A satellite-augmented cellular network concept Deepak Ayyagari , Anthony Ephremides Wireless Networks February 1998 Volume 4 Issue 2 <p>Some next-generation personal communication systems propose the use of satellite systems for extending geographical coverage of cellular service. We pursue the idea of using satellite capacity to offload congestion within the area serviced by the terrestrial network. An integrated satellite-cellular network configuration is considered. The performance of this system is evaluated by means of an analytical model for a one-dimensional (highway) cellular system overlaid with satellite footprint ...</p>	82%
6 Delay analysis for forward signaling channels in wireless cellular network Izhak Rubin , Cheon Won Choi Wireless Networks March 1997 Volume 3 Issue 1 <p>We consider connection-oriented wireless cellular networks. Such second generation systems are circuit-switched digital networks which employ dedicated radio channels for the transmission of signaling information. A forward signaling channel is a common signaling channel</p>	82%

assigned to carry the multiplexed stream of paging and channel-allocation packets from a base station to the mobile stations. Similarly, for ATM wireless networks, paging and virtual-circuit-allocation packets are multiplex ...

7 A data request scheduling policy for PCS networks 80%
 Wen-Nung Tsai , Yi-Bing Lin
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 This paper proposes a scheduling policy called latest preempted, earliest resumed (LPER) for personal communications services (PCS) systems that support voice services as well as the circuit mode data services. The policy gives priority to the voice services over the data services. The scheduling of voice requests is performed as if no data requests exist. Thus, if no idle channel is available when a voice request arrives, a data channel (if exists) is interrupted and the channel will be us ...

8 Third generation wireless communications and beyond: summary 77%
 Lin-Nan Lee
Proceedings of the 2nd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems August 1999
 This paper provides an overview of the third generation wireless communications and beyond. It discusses the evolution of wireless communication technologies, the challenges and opportunities for the future, and the potential impact of new technologies on society.

9 Optimizing the end-to-end performance of reliable flows over wireless links 77%
 Reiner Ludwig , Almudena Konrad , Anthony D. Joseph
Proceedings of the fifth annual ACM/IEEE international conference on Mobile computing and networking August 1999
 This paper presents a framework for optimizing the end-to-end performance of reliable flows over wireless links. It discusses the challenges of wireless communication and proposes a solution based on a combination of network and link layer optimization techniques.

10 Power optimization of variable voltage core-based systems 77%
 Inki Hong , Darko Kirovski , Gang Qu , Miodrag Potkonjak , Mani B. Srivastava
Proceedings of the 35th annual conference on Design automation conference May 1998
 The growing class of portable systems, such as personal computing and communication devices, has resulted in a new set of system design requirements, mainly characterized by dominant importance of power minimization and design reuse. We develop the design methodology for the low power core-based real-time system-on-chip based on dynamically variable voltage hardware. The key challenge is to develop effective scheduling techniques that treat voltage as a variable to be determined, in addition to ...

11 On the performance of packet-switched cellular networks for wireless data communications 77%
 Jean-Paul M. G. Linnartz
Wireless Networks February 1995
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 Cellular frequency reuse is known to be an efficient method to allow many wireless telephone subscribers to share the same frequency band. However, for wireless data and multi-media communications optimum cell layouts differ essentially from typical solutions for telephone systems. We argue that wireless radio systems for bursty message traffic preferably use the entire bandwidth in each cell. Packet queuing delays are derived for a network with multipath fading channels, shadowing, path loss ...

12 Error control schemes for networks: an overview 77%
 Hang Liu , Hairuo Ma , Magda El Zarki , Sanjay Gupta
Mobile Networks and Applications October 1997
 Volume 2 Issue 2
 In this paper, we investigate the issue of error control in wireless communication networks. We review the alternative error control schemes available for providing reliable end-to-end communication in wireless environments. Through case studies, the performance and tradeoffs of these schemes are shown. Based on the application environments and QoS requirements, the design issues of error control are discussed to achieve the best solution.

13 Slotted ALOHA and CDPA: a comparison of channel access performance in cellular systems 77%
 Flaminio Borgonovo , Michele Zorzi
Wireless Networks March 1997
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 The paper compares the performance of two channel-access schemes suitable for the cellular environment, which, in particular, allow the packet capture and can deal with inter-cell interference. The first scheme is the well known S-ALOHA while the second one is the Capture Division Packet Access, recently proposed. The comparison is analytically performed over a common system with a common analytical model. Despite the many analyses appeared on S-ALOHA, the one we develop is new because it is ...

14 Transport and control issues in multimedia wireless networks 77%
 Antonio Iera , Salvatore Marano , Antonella Molinaro
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 It is not an easy task in the UMTS environment to effectively design the transport and the management of traffic belonging to multimedia teleservices among those defined by ITU Recommendations, due to the hard communication requirements which this kind of application can call for. In this paper the results of an overall research work, dealing with an effective management of "multimedia" and "multi-requirement" services in enhanced third-generation mobile radio systems ...

15 Near-optimality of distributed load-adaptive dynamic channel allocation strategies for cellular mobile networks 77%
 This paper presents a distributed load-adaptive dynamic channel allocation strategy for cellular mobile networks. The strategy aims to achieve near-optimality in terms of channel utilization and fairness among users. It uses a distributed algorithm to dynamically allocate channels based on user traffic and channel availability.

 Andrea Baiocchi , Fabrizio Sestini
Wireless Networks June 1996
Volume 2 Issue 2

In this paper we focus on the so-called load-adaptive Dynamic Channel Allocation (DCA) strategies for cellular mobile networks. Such strategies envisage the dynamic assignment of radio resources with the constraint that the outage probability (i.e. the probability that the carrier-to-interference power ratio be less than a given threshold) be less than a specified value, even in the worst foreseen propagation scenario. We identify a set of constraints to be satisfied in order that a DCA str ...

16 Rednet: a wireless ATM local area network using infrared links

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 J. H. Condon , T. S. Duff , M. F. Jukl , C. R. Kalmanek , B. N. Locanthi , J. P. Savicki , J. H. Venutolo
Proceedings of the first annual international conference on Mobile computing and networking December 1995

17 Evaluation of location area planning scenarios in future mobile telecommunication systems

77%

 J. G. Markoulidakis , G. L. Lyberopoulos , D. F. Tsirkas , E. D. Sykas
Wireless Networks February 1995

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In third generation mobile telecommunication systems, signalling requirements due to location updating and paging are expected to be remarkable, mainly because of the huge number of mobile subscribers. Location area planning is characterised by the trade-off between the number of location updates and the amount of paging signalling that the network has to deal with. Location area planning should be based on criteria which guarantee that signalling load will be kept under tolerable levels. V ...

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2 Estimation in cellular radio systems*Blom, J.; Gunnarsson, F.; Gustafsson, F.*

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3 G-CBWL: a dynamic frequency allocation technique suitable for GSM*Althoff, M.P.; Scheibenbogen, M.; Seidenberg, P.*

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4 A GSM simulation platform for intrusion detection*Samfat, D.; Devernay, V.; Bonnet, C.*

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6 Adaptive borrowing of ordered resources for the pan-European mobile communication (GSM) system

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7 The inhibit sense multiple access with polling (ISMA/P): a MAC-RLP combined procedure for packet mode data over noninterleaved channel for GSM-GPRS services*Chakraborty, S.S.; Wager, S.*

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8 A packet radio protocol for group communication suitable for the GSM mobile radio network*Decker, P.*

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